

Academic Programs at the Daytona Beach Campus

Air Traffic Management

Bachelor of Science

The Applied Aviation Sciences Department offers a Bachelor of Science degree in Air Traffic Management (ATM). This degree is designed for students whose goal is to become air traffic controllers or seek employment in a related industry. The academic courses are designed to provide exposure to procedures and operations consistent with those found in Federal Aviation Administration (FAA) air traffic control facilities. The ATM curriculum provides the knowledge and foundation designated by the FAA for eventual student entry into the FAA Academy where they will be integrated with graduates of other Collegiate Training Initiative (CTI) schools for additional air traffic control training.

Degree Requirements

The Bachelor of Science degree in Air Traffic Management requires successful completion of a minimum of 120 credit hours, normally completed in eight semesters. This includes a minor course of study as approved by the Applied Aviation Sciences Department.

Suggested Program of Study

Students should be aware that several courses in each academic year might have prerequisites and/or corequisites. Please check the course descriptions in this catalog before registering for classes to ensure requisite sequencing.

FRESHMAN YEAR

Course	Title	Credits
	Communication Theory and Skills	6
	Computer Science Elective*	3
	Physical Science with Laboratory	3
	Lower-Level Humanities	3
MA 111	College Mathematics for Aviation I	3
MA 112	College Mathematics for Aviation II	3
WX 201	Survey of Meteorology	3
	Open Elective	6
Total Credits		30

SOPHOMORE YEAR

Course	Title	Credits
	Communication Theory and Skills	3
	Physical Science*	3
	Lower-Level Humanities	3
AT 200	Air Traffic Management I	3
AT 302	Air Traffic Management II	3
BA 201	Principles of Management	3
EC 200	An Economic Survey	3
PSY 101	Introduction to Psychology	3
SF 201	Introduction to Health, Occupational Safety, and Transportation -OR-	
SF 210	Introduction to Aerospace Safety	3
SF 320	Human Factors in Aviation Safety	3
Total Credits		30

JUNIOR YEAR

Course	Title	Credits
AT 305	Air Traffic Management III	3
AT 315	VFR Control Tower	3
AT 401	Air Traffic Management IV	3
BA 314	Human Resource Management	3
HU/SS	300-400 Level Elective	3
	Upper-Level Open Elective	6
SF 462	Health, Safety, and Aviation Law	3
WX 301	Aviation Weather	3
	Open Elective	3
Total Credits		30

Academic Programs at the Daytona Beach Campus

SENIOR YEAR

Course Title	Credits
AT 405 Air Traffic Management V.....	3
AT 406 Non Radar Air Traffic Control	3
Required courses necessary to complete one minor course of study approved by the Applied Aviation Sciences Department.	
Open Electives to meet the requirement of 40 hours of upper-level courses and 120 total hours to complete the degree.....	9-18

TOTAL DEGREE CREDITS 120

* Embry-Riddle courses in the general education categories of Communication Theory and Skills, Computer Science, Humanities, Social Sciences, Mathematics, and Physical Science may be chosen from those listed below, assuming prerequisite requirements are met. Courses from other institutions are acceptable if they fall into these broad categories and are at the level specified in the Air Traffic Management vertical outline.

Communication Theory and Skills:

COM: 122, 219, 221, 222, 410

Humanities:

140, 141, 142, 143, 144, 145

Social Sciences:

Lower-Level

SS: 110, 120, 130, 204, 210

Upper-Level

SS: 310, 325, 350, 351, 352

Physical Science:

PS: 101, 102, 103, 104, 105, 106, 107, 108, 111, 112, 142, 208, 215, 219, 240, 301, 302, 303, 304, 306, 308, 309, 310, 411, 312, 313, 320, 400, 401, 403, 405, 408, 410, 412, 414 (1 laboratory)

Mathematics

MA: 111, 112, 140, 142, 241; MA 145, 241

Students enrolled in the Army, Navy, or Air Force ROTC programs may substitute MY, NSC, or AF courses for open elective courses.